

## PRODUCTION OF HIGH STRENGTH PARTS

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Applicant: KOBE STEEL LTD

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C22C38/00; C22C38/18; C22C38/60; C22C38/00;  
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- European:

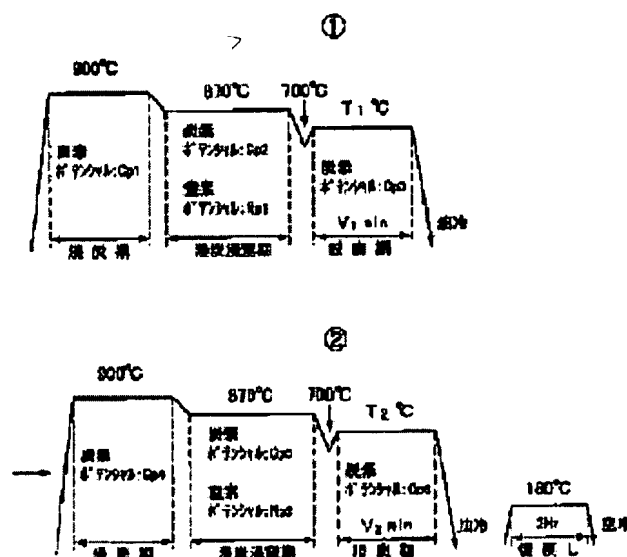
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### Abstract of JP2000129347

**PROBLEM TO BE SOLVED:** To provide a method for efficiently production high strength parts excellent in pitting resistance and bending fatigue resistance. **SOLUTION:** A steel containing by mass % 0.05-0.5% C,  $\leq 3\%$  Si (not including 0%),  $\leq 2.5\%$  Mn (not including 0%) and 2.5-15% Cr, is used. Then, as a heat treatment process, after executing carburizing and carbonitriding or after once cooling to the A1 transformation point or lower, the steel is again heated to the A1 transformation point - 1100 deg.C and the decarburizing treatment is executed to form  $\leq 5 \mu\text{m}$  the average grain diameter of carbide in the cross section within 0.1 mm from the surface.



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